

Research Publications during last five years of Dr. BirBikram Singh

S.No.	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Impact Factor
1	Dynamical cluster-decay model applied to very light mass compound systems A~30 formed in heavy ion reactions	BirBikram Singh , Mandeep Kaur, Manoj K. Sharma, and Raj K. Gupta	Jour. of Phys. Conf. Proc. (JPCS) , Volume 569, Page012030, Inst. of Phys. Publishing, U.K.	2014	1742-6588 (print) 1742-6596 (online)	
2	Extensions of Natural Radioactivity to 4th-Type and of the Periodic Table to Super-heavy Nuclei: Contribution of Raj K Gupta to Cold Nuclear Phenomena	BirBikram Singh , Sushil Kumar, Manoj K. Sharma, S.K. Patra	Jour. of Nucl. Phys., Mat. Sci., Rad. and Appl., Volume 1, No. 2, Page 133, Chitkara University, India	2014	2321-8649 (Print) 2321-9289 (online)	
3	Effect of orientations in the decay of very light mass compound nucleus $^{28}\text{Al}^*$ formed in $^{18}\text{O}+^{10}\text{B}$ and $^{19}\text{F}+^9\text{Be}$ reactions	BirBikram Singh , MandeepKaur, and Manoj K. Sharma	Current Reports on Science and Technology, Volume 01 - Issue 02, Page 85, Faculty of Sciences, Khalsa College, Amritsar	2015	2455-023X	
4	Dynamics of odd mass lighter compound system at different excitation energies	BirBikram Singh and Manpreet Kaur	Current Reports on Science and Technology, Volume 01 - Issue 02, Page 78, Faculty of Sciences, Khalsa College, Amritsar	2015	2455-023X	

5	Fusion-Fission of Extremely Light Mass Compound Systems $^{20,21,22}\text{Ne}^*$	BirBikram Singh , ManpreetKaur, and Raj K. Gupta	Jour. of Phys. Soc. Conf. Proc. (JPS Conf. Proc.), Volume 6, Page 030001, Physical Society of Japan, Japan	2015	978-4-89027-110-8 (online)	
6	Dynamical decay of $^{32}\text{S}^*$ and $^{31}\text{P}^*$ formed in $^{20}\text{Ne} + ^{12}\text{C}$ and $^{19}\text{F} + ^{12}\text{C}$ reactions respectively, at $E^*\text{CN} = 60$ MeV	BirBikram Singh , Mandeep Kaur, Manoj K. Sharma, and Raj K. Gupta	European Physical Jour. Web of Conferences (EPJ WOC), Volume 86, Page 00049, EDP Science, France	2015	2101-6275 (print) 2100-014X (online)	
7	Heavy ion collision dynamics of $^{10,11}\text{B} + ^{10,11}\text{B}$ reaction	BirBikram Singh , ManpreetKaur, Varinderjit Kaur, and Raj K. Gupta	European Physical Jour. Web of Conferences (EPJ WOC), Volume 86, Page 00048, EDP Science, France	2015	2101-6275 (print) 2100-014X (online)	
8	Decay analysis of compound nuclei with masses $A \approx 30-200$ formed in reactions involving loosely bound projectiles	Mandeep Kaur, BirBikram Singh , Manoj K. Sharma, and Raj K. Gupta	Physical Review C (PRC), Volume 92, Page 024623, American Physical Society, U.S.A.	2015	2469-9985 (print) 2469-9993 (online)	3.132
9	Dynamics of the reaction involving loosely bound projectile	MandeepKaur, BirBikram Singh , Manoj K. Sharma	Current Reports on Science and Technology, Volume 02 - Issue 01, Page 10, Faculty of Sciences, Khalsa College, Amritsar	2016	2455-023X	

10	Predictability of Dynamical Cluster Decay Model	BirBikram Singh	Applied Science Letters, Volume 02 – Issue 04, Page 114, Asian Scientific Publishers, Brazil	2016	2394-479X (Print) 2394-5001 (Online)	
11	Study of neck length parameter for complete fusion ^9Be induced reactions	MandeepKaur, BirBikram Singh , Manoj K. Sharma	International Journal of Pure and Applied Physics, Volume 13, Number 1, Page 154, Research India Publications, India	2017	0973-1776 (print)	
12	Nuclear structure aspects in the decay of odd medium mass composite systems formed in the reactions with $E/A = 8 \text{ MeV}$	ManpreetKaur and BirBikram Singh	International Journal of Pure and Applied Physics, Volume 13, Number 1, Page 162, Research India Publications, India	2017	0973-1776 (print)	
13	Clustering effects and decay analysis of the light mass $N=Z$ and $N \neq Z$ composite systems formed in heavy ion collisions	ManpreetKaur, BirBikram Singh , S.K. Patra, and Raj K. Gupta	Physical Review C (PRC), Volume 95, Page 014611, American Physical Society, U.S.A.	2017	2469-9985 (print) 2469-9993 (online)	3.132
14	Clustering aspects in ^{20}Ne alpha Conjugate nuclear system	Manpreet Kaur, BirBikram Singh , S.K. Patra and Raj K. Gupta	Jour. of Nucl. Phys., Mat. Sci., Rad. and Appl., , Volume 5, Page 319, Chitkara University, India	2018	2321-8649 (Print) 2321–9289 (online)	

15	Evolution of preformation probability of alpha cluster decay of parent nuclei $84 \leq Z \leq 92$ having $N = 126$	Rupinder Kaur, BirBikram Singh , Mandeep Kaur, B.S. Sandhu, and Maninder Kaur	AIP Conf. Proc., Volume 1953, Page 140102_1-4, American Institute of Physics Publisher, U.S.A.	2018	0094-243X (print) 1551-7616 (online)	
16	Role of shell corrections in the phenomenon of cluster radioactivity	Mandeep Kaur, BirBikram Singh , and Manoj K. Sharma	AIP Conf. Proc., Volume 1953, Page 140066_1-4, American Institute of Physics Publisher, U.S.A.	2018	0094-243X (print) 1551-7616 (online)	
17	Effect of shell corrections on the beta decay isobaric mass parabolas	Sarbjee Kaur, Manpreet Kaur, and BirBikram Singh	AIP Conf. Proc., Volume 1953, Page 140098_1-4, American Institute of Physics Publisher, U.S.A.	2018	0094-243X (print) 1551-7616 (online)	
18	Dynamics of $^{28,30}\text{Si}^*$ compound nuclei formed at sub-barrier energies	Manpreet Kaur, BirBikram Singh , and Sarbjee Kaur	AIP Conf. Proc., Volume 1953, Page 140113_1-4, American Institute of Physics Publisher, U.S.A.	2018	0094-243X (print) 1551-7616 (online)	
19	Analysis of intermediate and light mass fragments from composite systems $^{26-29}\text{Al}^*$ formed in $^{16,18}\text{O} + ^{10,11}\text{B}$ reactions	Mandeep Kaur, BirBikram Singh , Manoj K. Sharma, and Raj K. Gupta	Nuclear Physics A (NPA), Volume 969, Page 14-29, Science Direct (Elsevier)	2018	0375-9474(print)	1.463

20	Study of α -induced reactions forming A = 60 compound systems within dynamical cluster decay model	Mandeep Kaur, BirBikram Singh , Manoj K. Sharma, and Raj K. Gupta	Nuclear Physics A (NPA) Volume 980, Page 67-80, Science Direct (Elsevier)	2018	0375-9474(print)	1.463
21	Investigating the fusionenhancement for neutron rich mid mass nuclei using Dynamical Cluster-Decay Model	Rupinder Kaur, Maninder Kaur, Varinderjit Singh, Sarbjee Kaur, BirBikram Singh , and B.S. Sandhu	Physical Review C (PRC), Volume 98, Page 064612, American Physical Society, U.S.A.	2018	2469-9985 (print) 2469-9993 (online)	3.132
22	N / Z dependence of decay channels in A = 80 compound nuclei	Manpreet Kaur, BirBikram Singh , Sarbjee Kaur and Raj K. Gupta	Physical Review C (PRC), Volume 99,, Page 014614, American Physical Society, U.S.A.	2019	2469-9985 (print) 2469-9993 (online)	3.132
23	Probing shell effects in the reaction dynamics of ^{19}F induced reactions populating compound nuclei having A~200	Sarbjee Kaur, BirBikram Singh , SK Patra	AIP Conf. Proc., American Institute of Physics Publisher, U.S.A. (Accepted)	2019	0094-243X (print) 1551-7616 (online)	
24	Evolution of symmetric decay in A = 60 compound nuclei	MandeepKaur, Sarbjee Kaur, BirBikram Singh , and Manoj K. Sharma	AIP Conf. Proc., American Institute of Physics Publisher, U.S.A. (Accepted)	2019	0094-243X (print) 1551-7616 (online)	
25	Investigation of Fusion Dynamics for Reactions Induced by Si-isotopes at similar Ec.m.	Rupinder Kaur, Maninder Kaur, Varinderjit Singh, BirBikram Singh , B.S. Sandhu	AIP Conf. Proc., American Institute of Physics Publisher, U.S.A. (Accepted)	2019	0094-243X (print) 1551-7616 (online)	

26	Clustering effects in the exit channels of $^{13,12}\text{C} + ^{12}\text{C}$ reactions within the collective clusterization mechanism of the dynamical cluster decay model	Rupinder Kaur, Sarbjeeet Kaur, BirBikram Singh , B.S. Sandhu, S.K. Patra	Physical Review C (PRC), Volume 101,, Page 034614, American Physical Society, U.S.A.	2020	2469-9985 (print) 2469-9993 (online)	3.132
27	Dynamical aspects of ^{48}T ^{58}Fe , ^{58}Ni @ ^{106}Cd reactions at energies around the Coulomb barrier	Rupinder Kaur, Maninder Kaur, Varinderjit Singh, Mandeep Kaur, BirBikram Singh , B.S. Sandhu	Physical Review C (PRC), American Physical Society, U.S.A. (Accepted)	2020	2469-9985 (print) 2469-9993 (online)	3.132